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HONOLULU	J, HI 96813	2191	-		
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summan	09/910,519	FABLES ET AL.				
Office Action Summary	Examiner	Art Unit				
	Satish S. Rampuria	2124				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 31 Ja	anuary 2005.					
	<u></u>					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)  Claim(s) 21-40 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) 21-40 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)⊠ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) X Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					
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## Response to Amendment

- 1. This action is in response to the amendment received on Jan 31, 2005.
- 2. Claims 21 and 35 are amended.
- 3. Claims 21-40 are pending.

# Specification

4. Applicant is required to update the status (pending, allowed, etc.) of all parent priority applications in the first line of the specification. The status of all citations of US filed applications in the specification should also be updated where appropriate.

## **Double Patenting**

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 21, 22, 24, 25, 26 and 35 rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-4, of U. S. Patent No.

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6,282,697 (hereinafter called '697). Although the conflicting claims are not identical, they are not patentably distinct from each other because of the following observation.

Instant Claim '697 Claim 21. A distributed computing method 1. A computer processing method comprising comprising the steps of: the steps of: creating a plurality of software entities creating a plurality of software entities ("molecules") each of which is to be deployed ("molecules") each of which is configured in a remote computing environment and is with software micro-components including a configured with signal handling software signal handler, at least one input handler, at micro-components least one output handler, an interface handler, and at least one method handler for an associated method, said input handler, output handler, and signal handler being operative for sending and receiving communication for sending and receiving communication signals to or from a source externally of the signals to or from another molecule or logic respective molecule, said signal handling web externally of the respective molecule micro-components of each molecule being and being operatively connected to the other operatively connected a selected one of a micro-components, said at least one input plurality of method handling software microhandler being operative for queuing input data, components for processing input data by a said interface handler being operative for respective selected method in the given remote determining when a predefined input

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computing environment in which said molecule is deployed and providing

a resulting output of processing the input data;

deploying a first molecule with a method handling software component for a specific selected first data processing method on a respective one of a plurality of remote computing environments, together with a library containing a plurality of method handling software components for a corresponding plurality of data processing methods which may be selectively invoked in the remote computing environment;

wherein each first molecule deployed its respective computing environment invokes a

conditional for required input data to be received by said input handler is fulfilled and then invoking said method handler, said method handler being operative for invoking said associated method for processing the input data, and said at least one output handler being operative for outputting a result of the processing of input data by said method;

storing the created molecules in a library for later run time use;

deploying on a given computing resource a logic web comprising a plurality of molecules selected to perform a given processing task by invoking a first molecule to be retrieved from the library and executed on the given computing resource; and

said first molecule invoking one or more
other molecules to incrementally extend said
logic web "on the fly" by said signal handler of
said first molecule sending a communication

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next subsequent molecule with a method handling software component retrieved from the library for implementing a next selected in response to receipt of a communication signal from the external source, thereby creating a "logic web" of molecules of successive data processing method in successive layers of incremental processing steps to incrementally extend said logic web "on the fly" in response, at least in part, to communication signals from the external source.

signal to invoke said other molecule(s).

22. A distributed computing method according to Claim 21, wherein each logic web in each computing environment performs its data processing functions in its respective computing environment autonomously, and returns an output which is desired to be obtained from that computing environment.

2. A computer processing method according to claim 1, wherein said creating step includes creating a plurality of logic webs each having its web of software entities configured to perform a data processing task with a computing resource autonomously, and said deploying step includes deploying the plurality of logic webs with respective ones of a plurality of computing resources, respectively.

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- 24. A distributed computing method according to Claim 23, wherein the computing environments are a plurality of computing sites distributed on a network, and the logic webs return their outputs by sending sirals on the network.
- 25. A distributed computing method according to Claim 23, wherein the computing environments are a plmality of computing resotlrces in an array of processing units (CPUs) operated in parallel in a parallel processing environment.
- 26. A distributed computing method according to Claim 21, wherein said

software micro-components include a signal handler, at least one input handler, at least one output handler, an interface handler, and at least one method handler for an

- 3. A computer processing method according to claim 2, wherein said plurality of computing resources are distributed on a network in a distributed computing environment.
- 4. A computer processing method according to claim 2, wherein said plurality of computing resources include an array of central processing units (CPUs) in parallel in a parallel processing environment.
- 1. A computer processing method comprising
  the steps of:
  creating a plurality of software entities
  ("molecules") each of which is configured with
  software micro-components including a
  signal handler, at least one input handler, at
  least one output handler, an interface
  handler, and at least one method handler

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mssociated method,

operative for queuing input data, said interface handler being operative for determining when a predefined input condition for required input data to be received by said input handler is fulfilled and then invoking said method handler, said method handler being operative for invoking said associated method for processing the input data, and said at least one output handler being operative for outputting a result of the processing of input data by said method.

for an associated method, said input handler, output handler, and signal handler being operative

for sending and receiving communication signals to or from another molecule or logic web externally of the respective molecule and being operatively connected to the other microcomponents, said at least one input handler being operative for queuing input data, said interface handler being operative for determining when a predefined input conditional for required input data to be received by said input handler is fulfilled and then invoking said method handler, said method handler being operative for invoking said associated method for processing the input data, and said at least one output handler being operative for outputting a result of the processing of input data by said method;

storing the created molecules in a library for

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later run time use;

deploying on a given computing resource a logic web comprising a plurality of molecules selected to perform a given processing task by invoking a first molecule to be retrieved from the library and executed on the given computing resource; and said first molecule invoking one or more

said first molecule invoking one or more other molecules to incrementally extend said logic web "on the fly" by said signal handler of said first molecule sending a communication signal to invoke said other molecule(s).

1. A computer processing method comprising

35. A distributed computing method comprising the steps of:
creating a plurality of software entities
("molecules") each of which is to be
deployed in a remote computing
environment and is configured with signal
handling software micro-components

creating a plurality of software entities

("molecules") each of which is configured

with software micro-components including a

signal handler, at least one input handler, at

least one output handler, an interface handler,

and at least one method handler for an

associated method, said input handler, output

handler, and signal handler being operative

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for sending and receiving communication
signals to or from a source externally of the
respective molecule said signal handling
micro-components of each molecule being
operatively connected a selected one of a
plurality of method handling software
micro-components for processing input data
by a selected method in the given remote
computing environment in which said
molecule is deployed and providing

a resulting output of processing the input

for sending and receiving communication signals to or from another molecule or logic web externally of the respective molecule and being operatively connected to the other micro-components, said at least one input handler being operative for queuing input data, said interface handler being operative for determining when a predefined input conditional for required input data to be received by said input handler is fulfilled and then invoking said method handler, said method handler being operative for invoking said associated method for processing the input data, and said at least one output handler being operative for outputting a result of the processing of input data by said method;

The limitation recited in claims 21-26 are obvious variations of limitations in '697 Claims of 1-4.

The limitation recited in claim 35 is obvious variations of limitations in '697 Claim 1.

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## Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 21-29, 31, 33, and 35-38 are rejected under 35 U.S.C. 102(e) as being anticipated by US Patent No. 6,038,593 to Huckins, hereinafter called Huckins.

#### Per claims 21 and 28:

#### Huckins disclose:

- A distributed computing method (col. 3, lines 11-12 "distributed service architecture") comprising the steps of:
- creating a plurality of software entities ("molecules") (col. 5, lines 51-55 "application 233 creates the class object residing either in the application's own process space or in another process space on the machine 103" also, fig. 2) each of which is to be deployed in a remote computing environment (see Fig. 1 and related discussion) and is configured with signal handling software micro-components for sending and receiving communication signals to or from a source externally of the respective molecule (col. 3, lines 21-24 "The RI interface server is for sending and receiving protocol data units (PDUs) to and from another machine through the communication pipe linking the machines"), said signal handling micro-components of each molecule being operatively connected a selected one

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of a plurality of method handling software micro-components for processing input data by a respective selected method in the given remote computing environment (col. 4, lines 18-20 "The RI interface server is for sending and receiving protocol data units (PDUs) to and from another machine through the communication pipe linking the machines") in which said molecule is deployed and providing a resulting output of processing the input data (col. 6, lines 55-67 "the resulting changes to the data may be displayed to the user via the graphical user interface (GUI) 208 associated with the first application 233" also fig. 2);

- deploying a first molecule with a method handling software component for a specific selected first data processing method (see Fig. 1 and related discussion) on a respective one of a plurality of remote computing environments (col. 4, lines 4-6 "a communication pipe 101 is tapped into by multiple machines 103, 105 and 107 in which a copy of the same application will be running" also fig. 1), together with a library containing a plurality of method handling software components for a corresponding plurality of data processing methods which may be selectively invoked in the remote computing environment (see Fig. 2 and Fig. 3 and related discussion);
- wherein each first molecule deployed its respective computing environment invokes a next subsequent molecule with a method handling software component retrieved from the library for implementing a next selected in response to receipt of a communication signal from the external source (see Fig. 5, and related discussion), thereby creating a "logic web" of molecules of successive data processing method in successive layers of incremental processing steps (col. 3, lines 24-28 "The RI interface is for handling

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function calls from the application, and for creating an instance of itself, called a local-implementation (LI) interface, in a remote machine") to incrementally extend said logic web "on the fly" in response, at least in part, to communication signals from the external source (col. 3, lines 31-40 "RI server will create a PDU... includes... object identification (OID) of the RI interface and a unique function ID (FID) identifying the particular function that was invoked... PDU is... forwarded to... communication pipe... PDU... received... RI server... the RI server uses the OID and FID contained in the PDU to invoke the function through the previously created LI interface. A local implementation of the function in the remote machine is then performed").

## Per claim 35:

#### Huckins disclose:

- A distributed computing method (col. 3, lines 11-12 "distributed service architecture") comprising the steps of:
- creating a plurality of software entities ("molecules") (col. 5, lines 51-55 "application 233 creates the class object residing either in the application's own process space or in another process space on the machine 103" also, fig. 2) each of which is to be deployed in a remote computing environment (see Fig. 1 and related discussion) and is configured with signal handling software micro-components for sending and receiving communication signals to or from a source externally of the respective molecule (col. 3, lines 21-24 "The RI interface server is for sending and receiving protocol data units (PDUs) to and from another machine through the communication pipe linking the machines"), said signal

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handling micro-components of each molecule being operatively connected a selected one of a plurality of method handling software micro-components for processing input data by a selected method in the given remote computing environment (col. 4, lines 18-20 "The RI interface server is for sending and receiving protocol data units (PDUs) to and from another machine through the communication pipe linking the machines") in which said molecule is deployed and providing a resulting output of processing the input data (col. 6, lines 55-67 "the resulting changes to the data may be displayed to the user via the graphical user interface (GUI) 208 associated with the first application 233" also fig. 2);

- deploying a first molecule with a method handling software component for a specific selected first data processing method (see Fig. 1 and related discussion) on a respective one of a plurality of remote computing environments (col. 4, lines 4-6 "a communication pipe 101 is tapped into by multiple machines 103, 105 and 107 in which a copy of the same application will be running" also fig. 1), together with a library containing a plurality of method handling software components for a corresponding plurality of data processing methods which may be selectively invoked in the remote computing environment (see Fig. 2 and Fig. 3 and related discussion), wherein the remote computing environments are network computing sites distributed on a network (see Fig. 1 and related discussion);
- wherein each first molecule deployed its respective computing environment invokes a next subsequent molecule with a method handling software component retrieved from the library for implementing a next selected in response to receipt of a communication signal from the external source (see Fig. 5, and related discussion), thereby creating a "logic

web" of molecules of successive data processing methods in successive layers of incremental processing steps (col. 3, lines 24-28 "The RI interface is for handling function calls from the application, and for creating an instance of itself, called a local-implementation (LI) interface, in a remote machine") to incrementally extend said logic web "on the fly" (col. 3, lines 31-40 "RI server will create a PDU... includes... object identification (OID) of the RI interface and a unique function ID (FID) identifying the particular function that was invoked... PDU is... forwarded to... communication pipe... PDU... received... RI server... the RI server uses the OID and FID contained in the PDU to invoke the function through the previously created LI interface. A local implementation of the function in the remote machine is then performed")

providing a communication signal from a contol source on the network to each logic web at each network computing site to command, at least in part, its performance of more or selected data processing functions "on the fly" in its respective computing environment autonomously (col. 4, lines 15-18 "the communication pipe supports a multicast protocol wherein a machine does not necessarily have a one to one relationship with another machine" also fig. 1), and return of an output which is desired to be obtained from that network computing site (col. 4, lines 4-6 "a communication pipe 101 is tapped into by multiple machines 103, 105 and 107 in which a copy of the same application will be running" also fig. 1).

## Per claim 22:

The rejection of claim 21 is incorporated, and further, Huckins disclose:

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- wherein each logic web in each computing environment performs its data processing functions in respective computing environment autonomously (col. 4, lines 15-18 "the communication pipe supports a multicast protocol wherein a machine does not necessarily have a one to one relationship with another machine" also fig. 1), and returns an output which is desired to be obtained from that computing environment (col. 4, lines 4-6 "a communication pipe 101 is tapped into by multiple machines 103, 105 and 107 in which a copy of the same application will be running" also fig. 1).

## Per claims 23, 36, and 38:

The rejection of claims 21 and 35 is incorporated, respectively, and further, Huckins disclose:

- wherein each logic web returns the output for its respective computing environment to an external monitoring entity, and said external monitoring entity combines the outputs from the other computing environments to obtain a combined output of distributed computing (col. 6, lines 65-67 "the resulting changes to the data may be displayed to the user via the graphical user interface (GUI) 208 associated with the first application 233")

## Per claims 24, 25, and 37:

The rejection of claims 21 and 36 is incorporated, respectively, and further, Huckins disclose:

- wherein the computing environments are a plurality of computing sites distributed on a network (col. 3, lines 12-14 "a multicast environment and enables remote application control among multiple machines connected by a communication pipe" also fig. 1), and the logic webs return their outputs by sending signals on the network (col. 7, lines 37-46).

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"message will... received by... machines connected to the pipe 101... control message will contain the new OID "X" and will instruct server 321 to instantiate an associated interface object 329 (a local-implementation (LI) interface) and to associate it with the same OID X")

## Per claims 26 and 33:

The rejection of claim 21 is incorporated, and further, Huckins disclose:

- wherein said software micro-components include a signal handler, at least one input handler, at least one output handler, an interface handler, and at least one method handler for an associated method (col. 6, lines 55-67 and col. 7, lines 1-16 also fig. 2),
- said at least one input handler being operative for queuing input data (fig. 2, element 203), said interface handler being operative for determining when a predefined input condition for required input data to be received by said input handler is fulfilled (col. 6, lines 18-24 "Application 233 obtains an interface 209 from COM interface server 203, having a globally unique identifier GUID(j)... an object identification (OID) X. Server 203 has a GUID(j)... access to local implementation of the function f(y) with results of the performed function being displayed to the user through the graphical user interface (GUI) 208") and
- the invoking said method handler, said method handler being operative for invoking said associated method for processing the input data (col. 5, lines 47-54 "function identifier (FID) that is assigned for each function listed in interface 209... functions are redefined by interface definition. Each unique interface, such as IDocument, is identified by a

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GUID which the client application 233 and server 203 are aware of. The unique interface must also be identically defined by both client and server 203"), and

said at least one output handler being operative for outputting a result of the processing of input data by said method (col. 6, lines 65-67 "the resulting changes to the data may be displayed to the user via the graphical user interface (GUI) 208 associated with the first application 233")

## Per claim 27:

The rejection of claim 21 is incorporated, and further, Huckins disclose:

wherein said software micro-components are stored in a library for run time use (col. 8, lines 18-20 "the object can reside in application 135 and will cause changes to data stored in machine 105"), and during run time a logic web is deployed in a given computing environment invoking a first molecule to be retrieved from the library and executed in the given computing environment (col. 7, lines 13-17 "GUID for server 301 may be obtained by either embedding the GUID value in the binary code of application 133, or by the application 133 at run time from its application configuration file or the system registry of the operating system"), and said first molecule invoking one or more other molecules to incrementally extend said logic web "on the fly" (col. 3, lines 31-40 "RI server will create a PDU... includes... object identification (OID) of the RI interface and a unique function ID (FID) identifying the particular function that was invoked... PDU is... forwarded to... communication pipe... PDU... received... RI server... the RI server uses the OID and FID contained in the PDU to invoke the function through the previously

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created LI interface. A local implementation of the function in the remote machine is

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then performed")

Per claim 29:

The rejection of claim 21 is incorporated, and further, Huckins disclose:

wherein said creating step includes creating molecules having a built-in handler function

for performing a clean-up of its functions when the molecule is to be terminated (col. 7,

lines 21-27 "the switcher task would simply modify the system registry or application

configuration file for application 133 to specify GUID(i) of the "distributed" server 301

as the server GUID that application 133 should use for its function calls. To switch back

to local mode, the switcher task would reset the configuration file to GUID(i) of the

"non-distributed" server 303")

Per claim 31:

The rejection of claim 21 is incorporated, and further, Huckins disclose:

wherein said signal handler can receive signals for and has a handler type for dynamically

reconfiguring the micro-component handlers of the molecule while in existence to

perform a processing task (col. 3, lines 36-40 "PDU is received by a RI server in a remote

machine, the RI server uses the OID and FID contained in the PDU to invoke the

function through the previously created LI interface. A local implementation of the

function in the remote machine is then performed")

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Substantially as claimed.

# Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 30, 32, 34, 39 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huckins in view of US Patent No. 5,701,439 to James et al., hereinafter called James.

## Per claim 30:

The rejection of claim 21 is incorporated, and further, Huckins disclose wherein said creating step includes creating molecules having a handler type for recording information on the state of its micro-component handlers and signaling such state information externally through said signal handler.

However, James discloses in an analogous computer system a transition diagram showing various states that the system passes through during a normal simulation run (col. 4, lines 58-63 "While in operate..., be desirable to temporarily suspend execution of the simulation, then subsequently return to the operate mode... at some point in time the operate mode will normally be terminated in some orderly fashion, possibly to return to an initialization state. This sequence of states and state transitions is detailed in FIG. 2" also fig. 2).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the method of recording different stats of the program as taught by James into the method of distributing applications for multicast environment systems as taught by Huckins. The modification would be obvious because of one of ordinary skill in the art would be motivated to use stat information to provide data handling in simulation as suggested by James (col. 1, lines 62-67 to col. 2, lines 1-8).

## Per claims 32 and 39:

The rejection of claims 21 and 38 is incorporated, respectively, and further, Huckins does not explicitly disclose wherein said interface handler includes a handler type for providing the molecule with the characteristic of autonomously waiting, looking, and proceeding with said associated method for processing input data by waiting until said input handler indicates that the predefined input conditions are present before invoking said method handler for the associated method.

However, James discloses in an analogous computer system a wait queue being used by discrete-event components of the system (col. 4, lines 36-40 "discrete-event components of the system use a set of execution (event) 22, wait 28, and resource 26 queues for each discrete-event process; a single continuous model execution (consim) 24 queue is shared by all continuous model processes" also fig.1, element 28).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the method of using wait queue feature as taught by James into the method of distributing applications for multicast environment systems as taught

by Huckins. The modification would be obvious because of one of ordinary skill in the art would be motivated to implement a wait queue in the system to improve handling of functions calls through the interface for uniform simulation as suggested by James (col. 1, lines 62-67 to col. 2, lines 1-8).

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## Per claims 34 and 40:

The rejection of claims 21 and 39 is incorporated, respectively, and further, Huckins does not explicitly disclose wherein said input handler is selected from one of a plurality of input handler types corresponding respectively to a plurality of different data source types.

However, James discloses in an analogous computer system the architecture of the combined discrete event and continuous model simulation permits the use of several language models with separate process for each function (col. 4, lines 34-36 "global data and control structures, designated as 20 in FIG. 1, reside in shared memory accessible to any process that requires them" also fig. 1).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the method of using multiple language feature as taught by James into the method of distributing applications for multicast environment systems as taught by Huckins. The modification would be obvious because of one of ordinary skill in the art would be motivated to implement a multiple language feature in the system to improve handling of functions calls through the interface for uniform simulation as suggested by James (col. 1, lines 62-67 to col. 2, lines 1-8).

# Response to Arguments

8. Applicant's arguments with respect to claim 21 and 35 have been considered but they are not persuasive.

In the remarks, the applicant has argued that:

- The invention as claimed enables the local "logic web" to implement any selected data handling method out of a plurality of data handling methods stored in a library on the local machine, so that the logic web incrementally extended "on the fly" in response to communication signals sent from an external source. This is a distinctly different method of "on the fly" remote computing not disclosed or suggested in the Huckins patent.

## Examiner's response:

1. Regarding the limitations logic web to implement any selected data handling method out of a plurality of data handling methods stored in a library and logic web incrementally extended "on the fly", Huckins discloses distributed service architecture that enables remote application control among the multiple machine connected by a communication pipe. The Remote implementation (RI) interface, which provides the function, called by the application and seding and receiving data units to and from another machine. In doing so, the system does provide a logic web and on the fly communication (see the rejection above and Fig. 1 and 2 and related discussion). Applicant only makes general allegations and does not point out any errors in the rejection. Therefore, the rejection is proper and maintained herein.

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#### Conclusion

1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Satish S. Rampuria whose telephone number is (571) 272-3732. The examiner can normally be reached on 8:30 am to 5:00 pm Monday to Friday except every other Friday and federal holidays. Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist: 571-272-2100

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Tuan Q. Dam** can be reached on (571) 272-3695. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Satish S. Rampuria Patent Examiner Art Unit **2191** 05/02/2005

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